



STATE OF TENNESSEE  
DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Water Resources  
Knoxville Environmental Field Office  
3711 Middlebrook Pike  
Knoxville, Tennessee 37921

April 20, 2016

Mr. Jerry Kerley, Water Resources Director  
City of Crossville  
963 City Lake Road  
Crossville, TN 38572

**RE: Holiday Lake Dam;  
I.D. No. 18-7022**

**Cumberland County**

Dear Mr. Kerley:

On April 19, 2016, a Safety Inspection was conducted by personnel of this Division on the above referenced dam. Enclosed is an inspection report that outlines the observed conditions at the dam.

Based on this inspection, the dam appears to comply with the Safe Dams Act, T.C.A. 69-11-101 et seq., and therefore merits a Certificate of Approval and Safety for operation.

During the inspection certain minor conditions listed below were observed. These conditions need to be corrected or monitored to insure that they do not develop into a serious threat to the safety of the dam.

**Clear the area around the drawdown outlet during routine maintenance.**

If you have not already done so, please sign the application sent to you earlier and return it along with the inspection fee of \$500.00. Please contact me at (865)594-5562 if you have any questions. Your cooperation with the Safe Dams program is appreciated.

Sincerely,

Terrell Hendren  
Environmental Consultant  
Division of Water Resources  
Knoxville Environmental Field Office

Enclosures

cc: Nashville, Safe Dams Program



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SAFE DAMS SECTION  
DIVISION OF WATER RESOURCES  
INSPECTION REPORT  
DAM AND APPURTENANT WORKS

Name of Structure Holiday Lake Dam I.D. 18-7022

Owner City of Crossville County Cumberland

H.P.C. 1 Weather Sunny, Warm Date April 19, 2016

Last Inspection Date April 23, 2015 Lake Level NPL

Emergency Spillway Capacity: Required PMP Existing PMP

Persons Present at Inspection Terrell Hendren - TDEC Safe Dams

Any structural modifications, problem areas, or additional information should be sketched. If additional sheets are needed for further sketches or notes, these should also be noted and made a part of this report.

1. UPSTREAM (LAKESIDE) SLOPE OF DAM

A. Vegetative Cover Grass with riprap/gravel at water's edge

	Yes	No
Trees	<u>          </u>	<u>X</u>
Brush and/or Briers	<u>          </u>	<u>X</u>
Needs Mowing	<u>          </u>	<u>X</u>

B. Erosion None noted

C. Slope Protection Riprap

	Yes	No
Completely rip-rapped?	X	

Areas needing additional riprap None

D. Slumps, Slides, Cracks None noted

	Yes	No
Sketch of location attached?		X

E. Animal Burrows None noted

F. Drift and Debris None

	Yes	No
Blocking trash rack or riser inlet?		X

G. Remarks None

2. CREST (TOP OF DAM)

A. Vegetative Cover Asphalt roadway

	Yes	No
Trees	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Brush and/or briers	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Needs mowing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ruts from vehicle or foot traffic	<input type="checkbox"/>	<input checked="" type="checkbox"/>

B. Erosion None noted

C. Slumps, Slides, Cracks None noted

	Yes	No
Sketch of location attached?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

D. Remarks None

3. DOWNSTREAM SLOPE OF DAM

A. Vegetative Cover Grass

	Yes	No
Trees	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Brush and/or briers	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Needs mowing and/or clearing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Needs reseeding	<input type="checkbox"/>	<input checked="" type="checkbox"/>

B. **Erosion**      Negligible

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C. **Seepage**      Small seep present near the spillway wingwall. As noted previously, the flow appears to be coming through fractured bedrock and does not appear to pose a threat.

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	Yes	No
Left Abutment (Looking Downstream)	_____	X _____
Right Abutment (Looking Downstream)	X _____	_____
Toe of Dam	_____	X _____
Sketch of location attached	_____	X _____
Soil particles or discolored water in the seepage	_____	X _____

**ESTIMATED VOLUME OF SEEPAGE**      Negligible

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D. **Slumps, Slides, Cracks**      None noted

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	Yes	No
Sketch of location attached?	_____	X _____

E. **Animal Burrows**      None noted

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	Yes	N/A	No
Water coming from hole?	_____	X _____	_____
Running water sounds heard?	_____	X _____	_____

F. **Remarks**      No changes were noted with the small seep.

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The area around the drawdown outlet must be cleared during routine maintenance.

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4. PRINCIPAL SPILLWAY

A. Inlet

1. Type (concrete, metal, etc.) Concrete weir control section

2. Shape primarily rectangular

3. Condition Good

B. Outlet

1. Type (concrete, metal, etc.) Rock channel

2. Shape Rectangular

3. Condition Good

Is stilling basin rip-rapped?

Yes

No

X

C. Remarks None

5. EMERGENCY SPILLWAY

A. Type (rock, earthen, etc.) Same as principal spillway

B. Condition Good

	Yes	No
Inlet blocked by debris?	<u>      </u>	<u>X</u>
Trees or brush growing in channel?	<u>      </u>	<u>X</u>

C. Remarks None

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6. DRAWDOWN FACILITIES 42" dia metal pipe

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

When is last known time operated? 2010

\_\_\_\_\_

Valved on upstream or downstream side? Downstream

\_\_\_\_\_

Remarks None

\_\_\_\_\_

\_\_\_\_\_

7. DOWNSTREAM HAZARD POTENTIAL 1 - HIGH

\_\_\_\_\_

	Yes	No
Is a change in hazard classification needed?	<u>      </u>	<u>X</u>

If Yes, explain why \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

	Yes	No
8. DO PLANS AND SPECIFICATIONS EXIST?	<u>X</u>	<u>      </u>

If so, where? City of Crossville

\_\_\_\_\_

	Yes	No
9. DO PIEZOMETERS EXIST?	<u>      </u>	<u>X</u>

If so, how many are present? \_\_\_\_\_

Remarks \_\_\_\_\_

\_\_\_\_\_

10. GENERAL COMMENTS      None

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11. RECOMMENDATIONS      Clear the area around the drawdown outlet during  
routine maintenance.

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INSPECTOR'S SIGNATURE



## INSPECTION REPORT SUMMARY

DAM NAME Holiday Lake Dam I.D. NUMBER 18-7022INSPECTION DATE April 19, 2016

The checklist below is marked to indicate the conclusions in the report.

**GENERAL CONDITIONS**Satisfactory      Marginal      DeficientUPSTREAM SLOPE

Vegetative Cover

X

Mowed Adequately

X

Erosion

X

Slope Protection

X

Slumps, Slides, Burrows

X

CREST OF DAM

Vegetative Cover

X

Mowed Adequately

X

Erosion

X

Ruts, Cracks

X

DOWNSTREAM SLOPE

Vegetative Cover

X

Mowed Adequately

X

Erosion

X

Seepage

X

Slumps, Slides, Burrows

X

SPILLWAYS AND DRAWDOWN FACILITIES

Spillway Capacity

X

Principal Spillway Condition

X

Emergency Spillway Condition

X

Drawdown Operable

X